

Design Technology Whole School Overview of Topics and Enhancement.

Autumn Term						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Topic Title	Textiles Christmas Decorations.	Cooking and Nutrition Healthy Eating.	Textiles	Mechanical Systems	Cooking and Nutrition	Textiles Link to Japan.
Key Question.	How do we decorate our homes at Christmas?	How can we keep our bodies healthy?	Linked to Stone Age?		Where does my food come from?	
Focus	<ul style="list-style-type: none"> • Cut materials safely using tools provided. • Measure and mark out to the nearest centimetre . • Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling). • Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen). • Shape textiles using templates. 	<ul style="list-style-type: none"> • Cut, peel or grate ingredients safely and hygienically. • Measure or weigh using measuring cups or electronic scales. • Assemble or cook ingredients. 	<ul style="list-style-type: none"> • Cut materials accurately and safely by selecting appropriate tools. • Measure and mark out to the nearest millimetre. • Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). • Select appropriate joining techniques. • Understand the need for a seam allowance. • Join textiles with appropriate stitching. 	<ul style="list-style-type: none"> • Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). 	<ul style="list-style-type: none"> • Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms). • Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. • Demonstrate a range of baking and cooking techniques. • Create and refine recipes, including ingredients, methods, cooking times 	<ul style="list-style-type: none"> • <i>Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).</i> • <i>Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper</i> • <i>Create objects (such as a cushion) that employ a seam</i>

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	<ul style="list-style-type: none"> • Join textiles using running stitch. • Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing). 		<ul style="list-style-type: none"> • Select the most appropriate techniques to decorate textiles. 		and temperatures.	<p><i>allowance.</i></p> <ul style="list-style-type: none"> • <i>Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration).</i> • <i>Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion).</i>
Enhancement						

Spring Term.						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Topic Title	Cooking and Nutrition	Construction	Cooking and Nutrition Investigating, tasting, evaluating and making food from the Caribbean.	Cooking and Nutrition Investigating, tasting, evaluating and making food from Italy.	Auckland Castle Enterprise Project.	N/A.
Key Question.						

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Focus	<ul style="list-style-type: none"> • Cut, peel or grate ingredients safely and hygienically. • Measure or weigh using measuring cups or electronic scales. • Assemble or cook ingredients. 	<ul style="list-style-type: none"> • Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. 	<ul style="list-style-type: none"> • Prepare ingredients hygienically using appropriate utensils. • Measure ingredients to the nearest gram accurately. • Follow a recipe. • Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking). 	<ul style="list-style-type: none"> • Prepare ingredients hygienically using appropriate utensils. • Measure ingredients to the nearest gram accurately. • Follow a recipe. • Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking). 	See Art Planning – textiles linked to Auckland Castle Enterprise Project.	
Enhancement						

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Summer Term.						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Topic Title	Construction	Textiles Creating puppets for a puppet show.	Mechanical Systems Bridges	Electrical Systems.	Mechanical Systems. Imaginative Inventors.	Cooking and Nutrition Bake Off! OR The Great British Menu – groups to design meal to impress the judges!
Key Question.	How can we travel to the moon?	Who are Punch and Judy?		How did the miners see underground?		
Focus	<ul style="list-style-type: none"> • Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. 	<ul style="list-style-type: none"> • Cut materials safely using tools provided. • Measure and mark out to the nearest centimetre. • Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling). • Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen). • Shape textiles using 	<ul style="list-style-type: none"> • Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). 	<ul style="list-style-type: none"> • Create series and parallel circuits <p>Looking at and creating lamps – maybe lamps of the future / if miners worked underground today – what would be the best design to help them?</p>	<p>Children to look at Victorian inventors. Children then to compete in a ‘dragon’s den’ type tournament to create a prototype of something new.</p>	<ul style="list-style-type: none"> • Understand and apply the principles of a healthy and varied diet. • To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. • Select from and use a wide range of ingredients.

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		templates. <ul style="list-style-type: none">• Join textiles using running stitch.• Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing).				
<i>Enhancement</i>						